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	Application No.	Applicant(s)	
N - 4' 6 A H 1 '11'4	10/814,448	ERDOGMUS ET AL	
Notice of Allowability	Examiner	Art Unit	
	Phuong Phu	2631	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE OFFICE	(OR REMAINS) CLOSED in this ap, or other appropriate communication GHTS. This application is subject to	plication. If not include will be mailed in due	ed course. THIS
1. This communication is responsive to the amendment filed of	on <u>2/23/05</u> .		
2. The allowed claim(s) is/are <u>1-36</u> .			
3. \boxtimes The drawings filed on <u>31 March 2004</u> are accepted by the E	Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority unda a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which gives (a) ☐ including changes required by the Notice of Draftsperson 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date 7. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F. 	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. Itted. Note the attached EXAMINER is reason(s) why the oath or declara to be submitted. On's Patent Drawing Review (PTO- Amendment / Comment or in the Comment of the drawing the header according to 37 CFR 1.121(content).	complying with the receives AMENDMENT or Nation is deficient. 948) attached Office action of the diagram of the front (not the diagram).	quirements OTICE OF
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal P 6. Interview Summary Paper No./Mail Dat 7. Examiner's Amendn 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	·

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REASONS FOR ALLOWANCE

1. This Office Action is responsive to the Amendment filed on 2/23/05.

2. Claims 1-36 are allowed.

3. The following is an examiner's statement of reasons for allowance:

-Regarding to independent claims 1, 13 and 25, none of prior art of record teaches or suggests an equalizing method and associated system wherein the method/system comprises procedures/devices of (a) using a kernel density estimate where different values of a kernel size are indicative of either a blind or a decision-directed equalization mode; (b) processing a received signal using a blind equalization mode; (c) evaluating, on a block or sample basis, an error measure based on a distance among a distribution of an equalizer output and a constellation; (d) updating the kernel size based upon the error measure thereby facilitating automatic switching between the blind and decision-directed equalization modes, where the kernel size is initially set to a value indicative of the blind equalization mode; and (e) selectively applying blind equalization or decision-directed equalization to the input signal according to the updated kernel size for subsequent iterations of procedures (c)-(e).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phuong Phu whose telephone number is 571-272-3009. The examiner can normally be reached on M-F (6:30-2:30).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on 571-272-3021. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuong Phu Primary Examiner Art Unit 2631

Phurs phu

PHUONG PHU PRIMARY EXAMMER

Phuong Phu 04/19/05